1. Record Nr. UNINA9910726292003321

Autore	Chakrabarti Dilip K.
Titolo	Plant Disease Forecasting Systems : Procedure, Application and Prospect / / by Dilip Kumar Chakrabarti, Prabhat Mittal
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2023
ISBN	981-9912-10-5
Edizione	[1st ed. 2023.]
Descrizione fisica	1 online resource (135 pages)
Disciplina	632.3
Soggetti	Plant diseases Ecology Agriculture Botany Plant Pathology Plant Science
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	1. Historic Plant Disease Epidemics -- 2. Epidemic Factors -- 3. Predicting Variables. 4.Criteria to Develop Forecast -- 5. Modeling of Epidemic Dynamic -- 6. Decision Support Systems (DSSs) -- 7. Expert System -- 8. Geographic Information Systems: Web-Based Disease Forecasting -- 9. Decision Support Systems and Expert Systems: A Comparison -- 10. Forecasting in Changed Climate -- 11. Disease Detection: Imaging Technology and Remote Sensing -- 12. Classical Disease Forecasting Systems.
Sommario/riassunto	This book focus on creating popularity and interest in modeling, derivation of equations for plant disease forecasting or construction and use of Web-based Expert Systems among plant pathologists. This book covers descriptions of many historic plant disease epidemics, various forecasting systems and methods of their construction, instruments required for study of plant disease epidemics, widely used commercial forecasting systems and present global scenario of forecasting. In the human history plant disease epidemics have brought unsurmountable misery many a times. Still breaking out of epidemic in any time in any part of the world is a stark reality. The panic spraying

of chemical pesticides is not a panacea. Only the IPM technology may give relief. This technology if backed by the disease forewarning system may yield the desired results. Hence, an in depth understanding of plant disease forecasting system and its successful implementation may bring the global food security. This title provides a useful background for all students, practitioners, and researchers interested in the field of epidemiology, food security and agriculture sciences. .